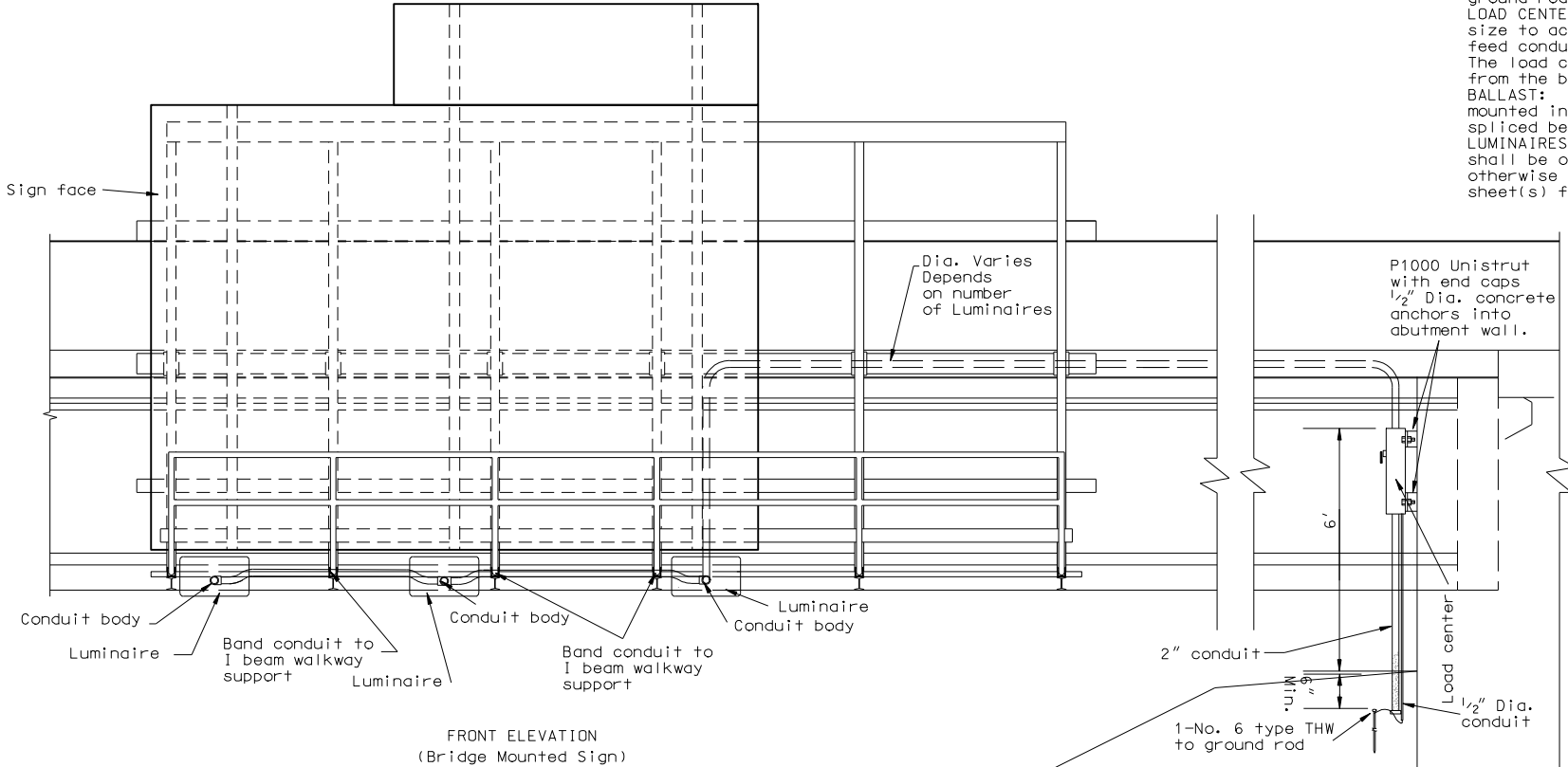
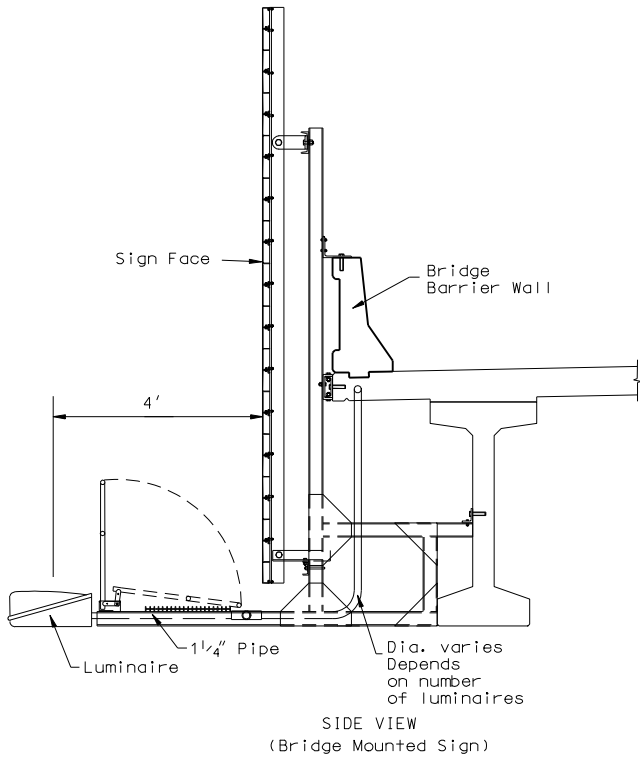


OVERHEAD SIGN LIGHTING DETAILS (BRIDGE MOUNTED)

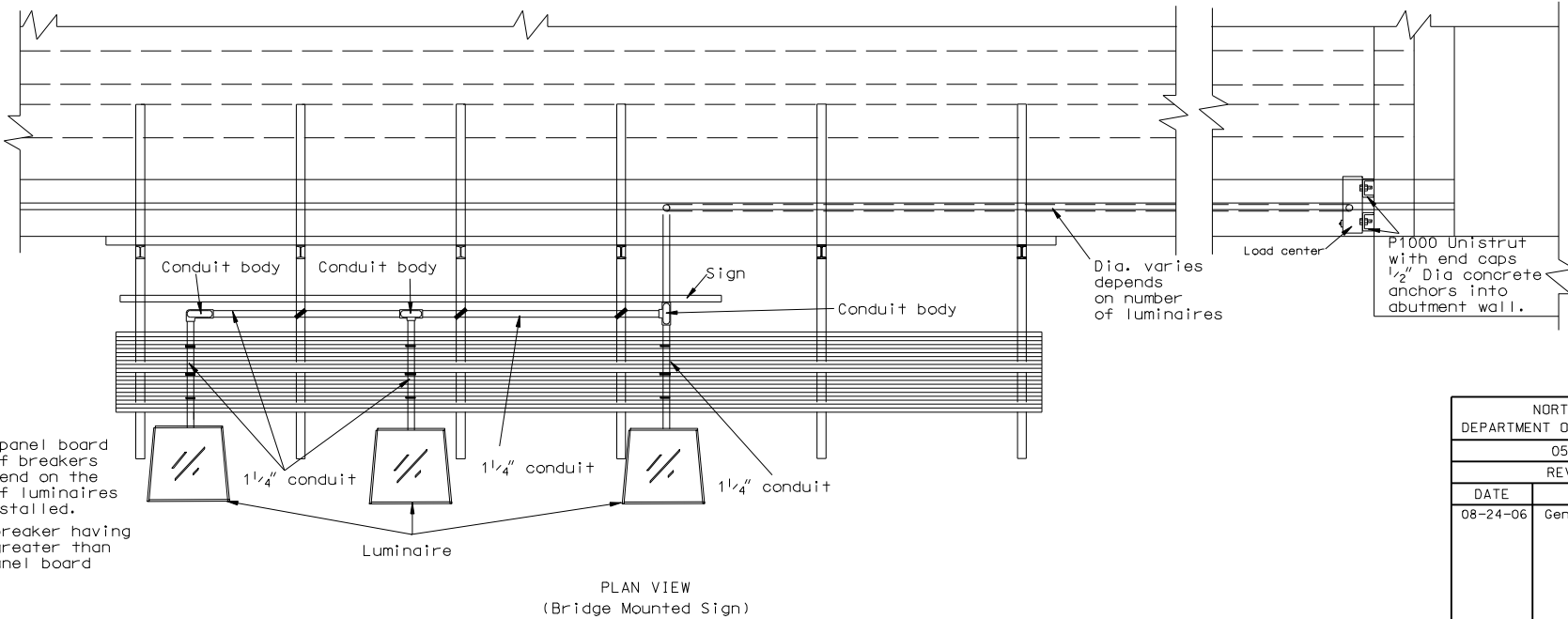
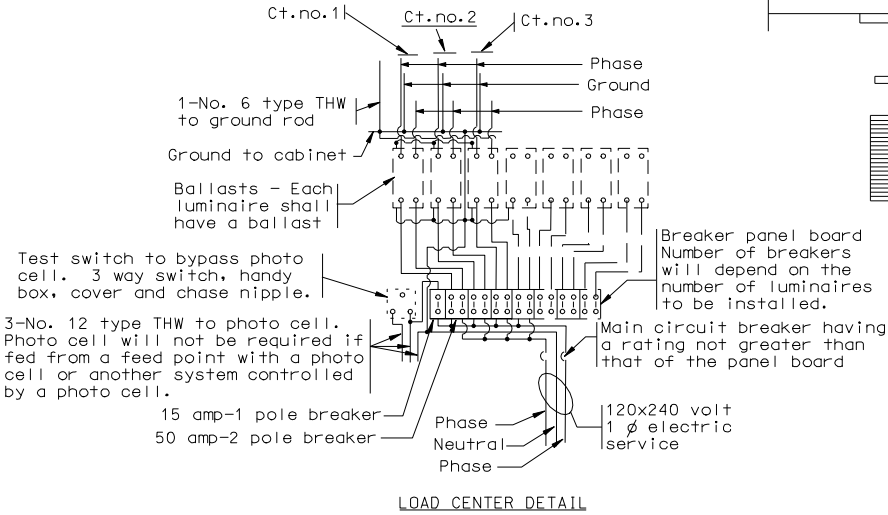
D-770-7A

NOTES:  
CONDUIT: Attach conduit to sign structure and/or bridge as required using steel banding and/or conduit hangers. See sign lighting layout sheet(s) for feeder conduit layout.  
BANDING: All banding shall be of 3/4" width stainless steel with stainless steel buckles.  
GROUND ROD: See sign lighting layout sheet(s) for ground rod details.  
LOAD CENTER: The load center shall be of sufficient size to accommodate the required wiring, equipment and feed conduit (see lighting layout for size of conduit). The load center shall be vented to dissipate heat from the ballast.  
BALLAST: Each luminaire shall have a separate ballast mounted in the load center. Conductor shall not be spliced between the luminaire and the ballast..  
LUMINAIRE: 250 watt mercury vapor luminaires shall be operated on 240 volts unless shown otherwise on layout sheet(s). See sign lighting layout sheet(s) for number and location of luminaires.



CONDUIT SIZES BETWEEN LUMINAIRE AND NUMBER OF CONDUCTORS			
FROM LUMINAIRE TO LUMINAIRE	CONDUIT SIZE	NUMBERS OF CONDUCTORS	
		FEEDER CONDUCTOR (No. 12 AWG)	GROUNDING CONDUCTOR (No 12 THW)
1 - 2	1 1/4"	2	1
2 - 3	1 1/4"	4	1
3 - 4	1 1/4"	6	1
4 - 5	1 1/4"	8	1
5 - 6	1 1/4"	10	1
6 - 7	1 1/4"	12	1
7 - 8	1 1/4"	14	1
8 - 9	1 1/2"	16	1
9 - 10	1 1/2"	18	1
10 - 11	1 1/2"	20	1
11 - 12	2"	22	1
12 - 13	2"	24	1
13 - 14	2"	26	1

Note:  
The number of luminaires shown in the plans shall be installed unless the appropriate shop drawings require a number other than what is shown, to which that number shall be installed.  
The conduit sizes shown in the conduit size table shall be used.  
Conduit and conductor from the load center to the closest luminaire shall be the size and number as if running to the next sequential luminaire.



NORTH DAKOTA DEPARTMENT OF TRANSPORTATION	
05-12-05	
REVISIONS	
DATE	CHANGE
08-24-06	General revisions

This document was originally issued and sealed by MARK S GAYDOS, Registration Number PE-4518, on 08/24/06 and the original document is stored at the North Dakota Department of Transportation